

# PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

29-Jun-2010

Company: 111309

Sales Order #: C002697  
CCC Panel #: P67941  
Date In: 03-Jun-2010  
Date Out: 16-Jun-2010  
Days In Service: 13

Room Area ID:  
Reference #:



**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company	111309		
Address			
Room/Area I.D.			
Date In	6/3/10	Time In:	a.m. 17 <sup>35</sup> p.m.
Date Out	6/16/10	Time Out:	a.m. 17 <sup>35</sup> p.m.
Coupon #	67941	Tracking #	02697
Serial #			

☐ Industrial ☐ ERM ☐ Preservation ☐ CIF

**PURAFIL**  
First...in clean air

2654 Weaver Way • Doraville, Georgia 30340  
Ph: (770) 662-8545 • (800) 222-6367  
Fx: (770) 263-6922 • www.purafil.com

**CCC Panel # P67941**

**ISA Class G2**  
Moderate

**Copper Corrosion**  
741 Å/30 Days

**Silver Corrosion**  
2576 Å/30 Days

(see next page for complete analysis)

## Summary for PURAFIL CCC # P67941

The electrolytic reduction analysis on Corrosion Classification Coupon #P67941 shows the presence of moderate concentrations of contaminants in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb and the sulfur dioxide level between 10 and 100 ppb. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

Your local representative for additional information and assistance is:  
Environmental Health and Eng  
117 Fourth Avenue, Needham MA 02494, USA  
tminegishi@eheinc.com

---

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922  
Email: purafil@purafil.com / Internet: http://www.purafil.com

---

Displaying Page 1      [Display Page 2](#)

**PURAFIL CCC # P67941 Analysis Results**

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	<u>30 Days</u>	<u>1 Year</u>	<u>5 Year</u>	
<b>Copper Films</b>				
Cu <sub>2</sub> S	457 Å	1593 Å	3562 Å	
Cu <sub>2</sub> O	169 Å	589 Å	1317 Å	
Unknowns	115 Å	402 Å	899 Å	
Totals	741 Å	2584 Å	5778 Å	
<b>Silver Films</b>				
AgCl	0 Å	0 Å	0 Å	
Ag <sub>2</sub> S	2353 Å	28645 Å	143223 Å	
Unknowns	223 Å	2715 Å	13573 Å	
Totals	2576 Å	31360 Å	156796 Å	
<b>Gold Pore Corrosion:</b>				
Note: 1000 Å = 0.1 micron				

**Equipment Reliability Correlation**  
(ISA Standard S71.04-1985 for Copper)